PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT 521, 742

(PCT Article 36 and Rule 70 Rec'd PCT/PTO 23 JUN 2005

Applicant's or agent's file reference 2002P09792WO	FOR FURTHER ACTION See N Prelimin	otification of Transmittal of International nary Examination Report (Form PCT/IPEA/416)				
International application No.	International filing date (day/month/yea	r) Priority date (day/month/year)				
PCT/DE2003/002447	21 July 2003 (21.07.2003)	19 July 2002 (19.07.2002)				
International Patent Classification (IPC) or n H01F 3/14	ational classification and IPC					
Applicant S	IEMENS AKTIENGESELLSCH	AFT				
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 						
2. This REPORT consists of a total of	sheets, including this co	ver sheet.				
amended and are the basis for	ed by ANNEXES, i.e., sheets of the descent this report and/or sheets containing rect Administrative Instructions under the PC	ription, claims and/or drawings which have been ifications made before this Authority (see Rule T).				
These annexes consist of a to	tal of sheets.					
3. This report contains indications related	ing to the following items:					
I Basis of the report						
II Priority						
III Non-establishment o	f opinion with regard to novelty, inventi-	e step and industrial applicability				
IV Lack of unity of inv	ention					
V Reasoned statement citations and explan	under Article 35(2) with regard to novelt ations supporting such statement	y, inventive step or industrial applicability;				
VI Certain documents of	ited					
VII Certain defects in th	VII Certain defects in the international application					
VIII Certain observations on the international application						
Date of submission of the demand	Date of complete	on of this report				
11 November 2003 (11.1	1.2003) 25	November 2004 (25.11.2004)				
Name and mailing address of the IPEA/EP	Authorized office	er				
Facsimile No.	Telephone No.					

Form PCT/IPEA/409 (cover sheet) (July 1998)

Translation

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/DE2003/002447

T. D.				PC1/DE2003/002447			
<u> </u>		f the re					
1. W			o the elements of the international application:*				
Ĺ	t/	he inte	emational application as originally filed				
2	∠ t	he des	cription:				
	p	pages	1-15	, as originally filed			
	p	pages		, filed with the demand			
	p	pages .	, filed with the letter				
	₫ tł	the clair	ms:				
	_ p	pages		as originally filed			
	р	pages	, as amended (to	, as originally filed			
	p	pages		filed with the demand			
	p	pages -	1-21, filed with the letter	r of 15 July 2004 (15.07.2004)			
\triangleright	d fi	he drav					
	_	pages	1/4 - 4/4	as originally filed			
	p	pages	177 - 474	, as originally filed			
ĺ	p	pages	, filed with the letter	, med will de deligne			
	ן †the	, сеппе	nce listing part of the description:	01			
_		oages	-				
l	-	pages		, as originally filed			
	_	pages	Glad with the Land	, filed with the demand			
~ '11)	_	-	, filed with the letter	of			
2. w	ith repended	gard to matior	o the language, all the elements marked above were available or furnished and application was filed, unless otherwise indicated under this item.	I to this Authority in the language in which			
Th	iese el	lement	ts were available or furnished to this Authority in the following language	which is:			
Ļ	╡ t1	the lang	guage of a translation furnished for the purposes of international search (und	der Rule 23 1(h))			
Ļ	⊒ t1	the lang	guage of publication of the international application (under Rule 48.3(b)).				
L	tł	the lang or 55.3)	guage of the translation furnished for the purposes of international prelim	ninary examination (under Rule 55.2 and/			
3. W	ith re	egard nary ex	to any nucleotide and/or amino acid sequence disclosed in the in camination was carried out on the basis of the sequence listing:	ternational application, the international			
Ļ			ed in the international application in written form.				
Ļ			gether with the international application in computer readable form.				
] fi	urnishe	ed subsequently to this Authority in written form.				
			ed subsequently to this Authority in computer readable form.				
	_ T	The sta	atement that the subsequently furnished written sequence listing does ional application as filed has been furnished.	s not go beyond the disclosure in the			
L	_] T	The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.					
4. [Ţ		endments have resulted in the cancellation of:				
	Ļ		he description, pages				
	F	_ t1	he claims, Nos	•			
	L		he drawings, sheets/fig				
5.] Th	iis repo yond t	ort has been established as if (some of) the amendments had not been mad he disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).	de, since they have been considered to go			
* Rep	olacen	ment sh	heets which have been furnished to the receiving Office in response to an i as "originally filed" and are not annexed to this report since they d				
		•	nt sheet containing such amendments must be referred to under item 1 and a				
			400 (D. D. (J. 1000)				

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/DE 03/02447

/. Reasoned statement under Article 3: citations and explanations supporting		inventive step or industrial appl	icability;
. Statement			
Novelty (N)	Claims	1-21	YES
	Claims		NO
Inventive step (IS)	Claims	1-21	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-21	YES
	Claims		NO

Citations and explanations

1. Claims 1 and 18:

Technical area: Inductive component

Prior art: The X- and Y-documents indicated in the search report are documents that were of particular importance with respect to the claimed invention according to claim 1 as originally filed. Of these citations, DE-A-19 854 902, which is considered to represent the closest prior art, discloses an inductive component as per the preamble of the present claim 1. The remaining citations do not disclose any further relevant information.

Problem: Minimization of power loss in the transformer during operation.

Solution: The inductive component as per claim 1 is characterized in that the gap length is selected from the range ≥2.0-≤10 mm. Claim 18 pertains to the use of the component according to claim 1.

Inventive step: A solution as per claim 1 cannot be deduced from the available citations. Although DE-A-19 854 902 discloses a gap length of approximately 1 mm, the gap length indicated in claim 1 is neither disclosed nor suggested. This gap

NATION DEDODE

International application No. PCT/DE 03/02447

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

length has the effect that, even if the inductive component is driven with several hundred volts, a relatively high Q factor may be achieved. The subject matter of the claim is therefore novel and involves an inventive step. The invention according to claim 1 and thus according to claim 18 meets the requirements of PCT Article 33(2) to (4).

2. Claims 2-17 and 19-21:

These claims pertain to embodiments of the invention as defined in claims 1 and 18 and as such likewise meet the requirements of PCT Article 33(2) to (4).

Observations or defects

- Contrary to PCT Rule 5.1(a)(ii), the description does not cite D1 and D2 or indicate the relevant prior art disclosed therein.
- 2. The description is not consistent with the new claims (PCT Rule 5.1(a)(iii)).
- 3. On page 10 (line 23) the definite article ("die") has not been added after the words "Dazu ist" ("To this end"). On page 14 (line 35) the words "figure 5" have not been substituted for the words "figure 2".